

Applications

SME Data Center Industrial / Military energy system Financial transaction / Clearing center Medical system, Precision instruments

Highlights

- High reliability
- Dual input
- Strong compatibility
- High overload capacity
- Built-in isolation transformer
- Superior protection
- Powerful battery charger
- ✓ N+X redundancy parallel

ACE series UPS is on-line double-conversion unstable grid environment.

UPS with built-in output isolation transformer, offering highly reliable power for most applications, especially suitable for medical system and industrial automation system. The ACE range includes single-phase input and single-phase output versions 6/10KVA and three-phase input and single-phase output versions from 10KVA to 30KVA. Its bypass dual DSP control design and high overload capability (up to 150%) make it ideal solution to protect critical devices in harsh and



Features

High reliability

- · Advanced DSP digital control technology bring ACE UPS high precision, fast speed, simple control circuit and
- Standard configuration with output isolation transformer, which prevent the harm to equipment caused by DC component of UPS output voltage, effectively reduce neutral to earth voltage of output and effectively decrease the direct interference from the harmonic currents of loads to improve the UPS reliability
- High overload capability (up to 150%)
- Bypass powered by independent power supply, and inside using dual DSP redundant design. When the main control system is abnormal or fails, the bypass system can still work normally to ensure uninterruptible power supply to loads
- Superior protection (surge, short-circuit, overvoltage, under-voltage, over-charge, reverse connection protection etc), especial IGBT drive circuit and IGBT overcurrent soft-shutdown technology greatly improve the reliability and safety of the inverter
- Advanced parallel redundant configuration with current sharing control technology which not only greatly improve system reliability, reduce MTTR, but also allows users to multiply capacity and uptime for future expansion by adding additional UPS systems

High usability and availability

- Single / single-phase models, and three / single-phase models for 380 / 400 / 415 V, 50 / 60 Hz grid system
- · Wide input voltage and input frequency range make the UPS convenient to connect the generator or other power-generation equipment
- Strong compatibility, suitable for all kinds of loads (resistive, inductive, capacitive and non-linear loads)
- Dual input and hot standby in series make the system more reliable and available
- Battery cold start and mains power start are available. In the absence of mains power, battery cold start function. allows users to start the UPS with the batteries to meet the emergency, and in the absence of batteries, users can start the UPS with the utility power and use it as high-precision regulated power supply
- LCD+LED display with friendly user interface and multi-functional button operation
- Abundant historical log available for future to retrieve and when fault occurs the fault code display on the screen will help maintenance personnel exclude the cause of issue

High intelligence

- Advanced multi-platform communications: standard RS232 / USB, optional RS485 / dry contacts, SNMP communication interfaces are used for monitoring UPS running status
- Advanced intelligent battery management technology with powerful charging capability and flexible charging parameters setting: 2 A / 4 A / 6 A / 8 A / 10 A / 12 A selectable (standard configuration), 14 A / 16 A / 18 A / 20 A / 22 A / 24 A selectable (optional configuration)



Available Options

O	! .	4!	Ports
COM	miinia	noite	Porte

RS485 / dry contacts, SNMP and SMS alarm

Software

UPSmart / iStars

Others

Parallel kits

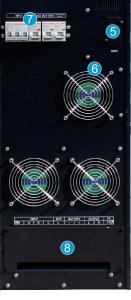
Harmonic suppressor

Input isolation transformer

Bypass isolation transformer

Details







- 1. EPO 2. USB
- 3. RS232
- 4. Parallel port 5. SNMP (optional)
- 6. Fan
- 7. Breaker

Technical specifications

MODEL	ACE 06 (1:1)	ACE 10 (1:1)	ACE 10 (3:1)	ACE 15 (3:1)	ACE 20 (3:1)	ACE 30 (3:		
Capacity	6 KVA 4800 W	10 KVA 8 KW	10 KVA 8 KW	15 KVA 12 KW	20 KVA 16 KW	30 KVA 24 KW		
INPUT								
Rated voltage	220 / 230 / 240 Vac (1 \(\phi + N + PE \) 380 / 400 / 415 Vac (3 \(\phi + N + PE \)							
Voltage range	165 ~ 275 Vac 285 ~ 475 Vac							
Rated frequency	50 Hz / 60 Hz							
Frequency range	40 ~ 70 Hz							
Frequency tracking range	± 5% Hz							
BYPASS								
Rated voltage	220 / 230 / 240 Vac (1 \phi + N + PE)							
Overload capability	Load current < 150% rated current: long time running 150% ≤ load current < 200%: 1 min 200% rated current ≤ load current: 200ms							
BATTERIES								
Battery voltage	192 Vdc							
Battery type	VRLAAGM maintenance-free lead based							
Number of battery	12 V × 16 pcs							
Charging voltage	220 Vdc							
EOD	168 Vdc							
Charging current	Default 8 A (2 A / 4 A / 6 A / 8 A / 10 A / 12 A selectable)							
OUTPUT								
Rated voltage	220 / 230 / 240 Vac (1 φ + N + PE)							
Power factor	0.8							
Waveform	Sinusoidal							
Rated frequency	50 Hz / 60 Hz (settable)							
Frequency precision	Mains mode: track bypass input in the state of synchronization Battery mode: $50/60 \pm 0.1$ Hz							
Voltage precision			±	1%				
Recovery time of transient voltage	< 20 ms							
Crest factor			3:	:1				
THDV		≤	3% (linear load); ≤	6% (non-linear lo	ad)			
Overload capability	Load ≤ 105%: long time running; 105% < load ≤ 125%: transfer to bypass in 10 mins; 125% < load ≤ 150%: transfer to bypass in 1 min 150% < load ≤ 200%: transfer to bypass in 200 ms 200% < load: transfer to bypass in 100 ms							
OTHERS								
Transfer time	0 ms							
Protections	Overload, surge, Short circuit, Over/under-voltage, battery overcharge/over-discharge, over-temperatur							
Communications	RS232 / USB (standard); RS485 / SNMP / dry contacts (optional)							
Operating temperature	0 ~ 40℃							
Storage temperature	-25°C ~ 55°C (without batteries);							
Relative humidity	0 ~ 95% (non-condensing)							
Operating altitude	≤ 1000 m (derating 1% for each additional 100 m)							
Noise level	< 60 dB (at 1 m)							
MTBF	MTBF > 200000 h							
MTTR	MTTR < 0.5 h							
IP rating	IP20							
Dimensions (W × D × H) (mm)	210 × 585 × 590 310 × 600 × 880 400 × 815 × 1100							
Packaged dimensions (W × D × H) (mm)	328 × 716 × 805 430 × 710 × 1080 525 × 925 × 1305							
Net weight (kg)	54	96	130	201	230	277		
Gross weight (kg)	64	108	142	216	245	292		

^{*} All specifications subject to change without notice.



